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Comet 1899 *V* (*Giacobini*).

1899.	Greenwich Mean Time of Observation. h m		☄−✱ R.A. m s	No. of Comparisons.	Apparent R.A. of ☄. h m s	☄−✱ Declination. ′ ″	No. of Comparisons.	Apparent Declination of ☄. ° ′ ″	Log. Factor of Parallax in R.A.	in δ.	No. of Reference.
Oct. 4	7 32	11·3	+6 37·43	Ret	16 35 19·80	−5 58·7	Ret.	− 3 40 39·3	+9·4558	−0·8582	58
8	7 38	9·0	+2 21·97	Ret.	16 41 5 42	+ 46·1	Ret.	− 2 25 40·6	+9·4755	−0·8519	59
9	7 40	50·9	−3 31 42	Ret.	16 42 31·96	−4 44·8	Ret.	− 2 7 16·1	+9·4813	−0·8528	60

October 4.—Heavy mist prevented a good view of the comet, which appeared very faint, and was found with difficulty.
October 8.—The comet better seen than on the 4th inst, but very difficult to observe.

Stars of Comparison. *Comet* 1898 *X* (*Brooks, October* 20).

Date 1898.	Star's Designation or Authority for Places.	Mean R.A. Equinox of Year. h m s	Correction to Mean R.A. s	Mean Declination. Equinox of Year. ° ′ ″	Correction to Mean Declination. ″	No. of Reference.
Oct. 24	A.G.Z. Cambridge, No. 4860	15 49 59·56	+0·15	+50 43 36·4	− 3·6	1
24	Harvard, Zones, No. 871	15 59 6·27	+0·14	+50 33 1·5	− 3·6	2
30	A.G.Z. Leiden, Zones, Nos. 68–207	17 2 19·95	+1·29	+33 20 47·4	+ 3·9	3
31	A.G.Z. Leiden, Zones, Nos. 193–202	17 8 58·40	+1·43	+30 41 24·5	+ 4·3	4
Nov. 1	A.G.Z. Cambridge, No. 8136	17 15 21·91	+1·55	+28 7 51·6	+ 4·6	5
1	A.G.Z. Cambridge, No. 8142	17 15 37·15	+1·55	+28 11 19·9	+ 4·6	6
3	A.G.Z. Berlin B, No. 5993	17 24 51·50	+1·76	+23 18 44·2	+ 4·8	7
6	A.G.Z. Berlin A, No. 6405	17 38 17·47	+2·01	+16 48 32·4	+ 4·9	8
7	A.G.Z. Leipzig and Berlin A, No. 6421	17 40 58·07	+2·09	+14 56 22·9	+ 5·0	9
10	A.G.Z. Leipzig Zones	17 49 4·50	+2·24	+ 9 48 23·9	+ 4·3	10
10	Paris Catalogue, No. 23034	17 51 9·98	+2·26	+ 9 46 15·4	+ 4·6	11

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Comet 1899 *I* (*Swift*, *March* 4).

Date 1899.	Star's Designation or Authority for Places.	Mean R.A. Equinox of Year. h m s	Correction to Mean R.A. s	Mean Declination. Equinox of Year. ° ′ ″	Correction to Mean Declination. ″	No. of Reference.
Mar. 7	A.We., No. 2019	3 36 4·41	+0·92	−23 14 21·9	− 6·7	12
11	A.We., No. 1819; Paris, No. 3997	3 16 5·93	+0·83	−17 53 8·6	− 4·3	13
12	A.We., No. 1791	3 12 32·37	+0·81	−16 41 8·7	− 3·9	14
14	Porter (12), No. 214; Stone, No. 744	3 2 32·40	+0·78	−14 8 36·3	− 2·8	15
15	Stone, No. 727	2 57 27·83	+0·76	−13 1 29·1	− 2·3	16
15	W.B. II., No. 1038	3 0 29·65	+0·77	−13 7 4·1	− 2·4	17
16	W.B. II., No. 886; La_3, No. 230	2 52 46·07	+0·75	−12 8 59·5	− 1·9	18
17	W.B. II., No. 875; La_3, No. 229	2 52 2·09	+0·75	−10 46 51·3	− 1·5	19
17	Stone, Rad. Cat., No. 690	2 49 14·06	+0·75	−10 51 14·4	− 1·6	20
18	Paris, No. 3528; Stone, No. 684	2 47 54·87	+0·73	− 9 51 23·4	− 1·0	21
20	Stone, Rad. Cat., No. 636	2 35 25·38	+0·70	− 7 51 55·5	− 0·3	22
22	Stone, Rad. Cat., No. 668	2 43 28·23	+0·69	− 6 9 33·3	+ 0·2	23
May 16	A.G.Z. Bonn Cat., No. 17271	22 52 24·48	+1·46	+40 21 35·0	− 2·6	24
18	11 Lacertæ, A.G.Z. Bonn Cat., No. 16991	22 36 5·17	+1·54	+43 44 55·5	− 3·7	25
18	A.G.Z. Bonn Cat., No. 16955	22 34 20·84	+1·54	+43 47 11·2	− 3·7	26
26	A.G.Z. Helsingfors, No. 11465	20 30 10·99	+2·30	+55 37 23·7	− 7·4	27
27	A.G.Z. Helsingfors, No. 11116	20 5 16·47	+2·43	+56 23 11·1	− 7·4	28
29	A.G.Z. Helsingfors, No. 10399	19 18 24·81	+2·77	+57 27 14·7	− 7·4	29
29	Radcliffe 1st Cat., No. 4148	19 12 7·10	+2·78	+57 31 52·9	− 7·4	30
30	A.G.Z. Helsingfors, No. 10059	18 52 1·15	+2·89	+57 21 30·2	− 7·1	31

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Date 1899.	Star's Designation or Authority for Places.	Mean R.A. Equinox of Year. h m s	Correction to Mean R.A. s	Mean Declination. Equinox of Year. ° ′ ″	Correction to Mean Declination. ″	No. of Reference.
31	45 Draconis; Helsingfors, No. 9856	18 30 50·02	+3·00	+56 58 7·1	− 6·7	32
31	A.G.Z. Helsingfors, No. 9789	18 23 27·57	+3·01	+56 55 32·9	− 6·7	33
June 1	Bonn, Vol. VI. +56°, No. 2058	18 1 0·56	+3·12	+56 22 1·6	− 6·2	34
2	A.G.Z. Helsingfors, No. 9436	17 42 1·25	+3·19	+55 11 56·8	− 5·8	35
2	A.G.Z. Helsingfors, No. 9430	17 41 19·11	+3·19	+55 12 29·7	− 5·8	36
4	A.G.Z. Cambridge Cat., No. 5133	16 58 55·12	+3·27	+52 44 57·1	− 4·9	37
5	A.G.Z. Cambridge Cat., No. 5092	16 48 25·27	+3·28	+51 17 57·3	− 4·5	38
5	A.G.Z. Cambridge Cat., No. 5070	16 42 6·69	+3·29	+51 17 42·3	− 4·5	39
6	A.G.Z. Cambridge Cat., No. 5008	16 25 37·50	+3·30	+49 53 19·8	− 4·2	40
8	A.G.Z. Bonn Cat., No. 10402	16 9 12·15	+3·28	+46 28 34·9	− 3·8	41
8	Bonn, Vol. VI. +46°, No. 2142	15 59 38·78	+3·28	+46 19 3·7	− 3·8	42
9	A.G.Z. Bonn Cat., No. 10192	15 48 33·66	+3·27	+44 59 57·4	− 3·7	43
9	A.G.Z. Bonn Cat., No. 10201	15 49 26·84	+3·27	+44 49 21·9	− 3·7	44
10	A.G.Z. Bonn Cat., No. 10174	15 46 3·14	+3·26	+43 9 8·9	− 3·7	45
12	A.G.Z. Bonn Cat., No. 9984	15 26 24·47	+3·24	+40 15 15·4	− 3·6	46
12	Radcliffe, No. 3395; A.G.Z. Bonn Cat., No. 9987	15 26 36·75	+3·23	+40 2 25·8	− 3·6	47
13	Paris Cat., No. 19126; A.G.Z. Lund Zone 6	15 20 31·89	+3·22	+38 32 53·9	− 3·6	48
14	W.B. XI. No. 199; A.G.Z. Lund Zones	15 11 8·69	+3·20	+37 12 16·2	− 3·7	49
15	Rü, No. 4958; A.G.Z. Lund Zones	15 4 5·56	+3·18	+35 37 21·8	− 3·8	50
16	A.G.Z. Leiden Zones, No. 42	15 3 2·03	+3·17	+34 21 14·9	− 3·9	51

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Tuttle's Comet.

Date 1899.	Star's Designation or Authority for Places.	Mean R.A. Equinox of Year. h m s	Correction to Mean R.A. s	Mean Declination. Equinox of Year. ° ′ ″	Correction to Mean Declination. ″	No. of Reference.
April 4	A.G.Z. Berlin B. Zones, No. 953	3 9 42·03	+0·89	+22 50 19·9	+ 5·4	52
10	A.G.Z. Berlin B. Zones, No. 1084	3 33 8·30	+0·92	+20 35 11·1	+ 4·3	53

Tempel II., Comet, 1899 *IV.*

July 26	Washington Zones, 1889; Frisby, 9334	20 45 39·09	+4·64	−21 24 12·5	+18·2	54
28	Radcliffe Cat., Stone, No. 5636	20 51 2·17	+4·66	−22 23 35·0	+18·6	55
30	Radcliffe Cat., Stone, No. 5656	20 55 33·18	+4·72	−23 28 24·4	+18·9	56
Aug. 1	Washington Zones, 1889, Frisby, No. 9378	20 51 8·08	+4·78	−24 34 59·2	+18·8	57

Comet 1899 *V* (*Giacobini*).

Oct. 4	Paris Catalogue, No. 20771	16 28 39·67	+2·70	− 3 34 39·5	− 1·1	58
8	Munich Neue Annalen, Bd. I., No. 12965	16 38 40·76	+2·69	− 2 26 26·3	− 0·1	59
9	Göttingen No. 2, No. 4097	16 46 0·71	+2·67	− 2 2 32·0	+ 0·7	60

Liverpool Observatory: 1900 *April* 10.

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